

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A mobile communication terminal configured to display a high resolution picture, comprising:

a wireless communication unit configured to receive high resolution picture data through a mobile communication network;

a memory;

a format converting unit configured to convert the picture data from the wireless transmitting/receiving unit into picture file formatted data including a plurality of unit blocks of picture data and indexes for providing access to each block of picture data, and configured to store the picture file formatted data in the memory, the format converting unit including:

a picture dividing unit configured to divide the picture data into the plurality of unit blocks of picture data; and

a storing unit configured to generate the indexes for each of the divided unit blocks of picture data and to store the file formatted picture including the index information and each unit block of picture data based on the index information in the memory;

a picture data processing unit configured to select, and extract a minimum number of unit blocks using the index information of the picture file formatted data and output a partial picture based upon the selected and extracted minimum number of unit blocks, the picture data processing unit including:

a decoding block selecting unit; and

a decoding frame generating unit; and

a display unit configured to display the partial picture;

wherein a scroll action operates to change a position of the partial picture within the high resolution picture by selecting and extracting only those unit blocks which need to be additionally decoded.

2. (Previously Presented) The mobile communication terminal of claim 1, wherein the memory further comprises:

a screen frame buffer configured to buffer the partial picture outputted to the display unit;
and

a decoding frame buffer configured to buffer the unit blocks of picture data including the partial picture outputted to the display unit.

3. (Previously Presented) The mobile communication terminal of claim 1, wherein the picture data processing unit further comprises a selected block decompressing unit configured to decompress each of the extracted unit blocks of picture data.

4. (Previously Presented) The mobile communication terminal of claim 1, wherein the picture file formatted data comprises picture header information including a size of the whole picture and a size of each unit block of picture data; and

wherein the picture data processing unit further comprises a supplementary information display unit configured to extract the picture header information from the picture file formatted data and output the information to the display unit.

5. (Previously Presented) The mobile communication terminal of claim 1, wherein the picture file format comprises supplementary information including at least one of a thumbnail of the high resolution picture, location information of an initial display block and picture summary text information; and

wherein the picture data processing unit further comprises a supplementary information display unit configured to extract the supplementary information from the picture file formatted data and display the supplementary information on the supplementary display unit.

6. (Canceled).

7. (Canceled).

8. (Previously Presented) The mobile communication terminal of claim 1, wherein the format converting unit further comprises a compressing unit configured to individually compress each of the divided blocks; and

wherein the storing unit is configured to store the compressed unit blocks of picture data in the memory.

9. (Previously Presented) The mobile communication terminal of claim 1, wherein the format converting unit further comprises a decompressing unit configured to decompress the compressed picture data from the wireless communication unit.

10. (Previously Presented) The mobile communication terminal of claim 1, wherein the storing unit is configured to generate a picture header including a size of the whole picture and a size of each unit block, and store the picture header in the memory with each unit block.

11. (Previously Presented) The mobile communication terminal of claim 1, wherein the storing unit is configured to generate supplementary information including at least one of a thumbnail of the picture, location information of an initial display block and picture summary text information, and store the information in the memory with each unit block.

12. (Previously Presented) The mobile communication terminal of claim 1, further comprising an external input port configured to receive picture data from an external device;

wherein the format converting unit is configured to convert the picture data from the external input port into picture file formatted data including a plurality of unit blocks of picture data and indexes for access to each unit block of picture data, and store the picture file format in the memory.

13. (Previously Presented) The mobile communication terminal of claim 12, wherein the external device is a camera connected to the external input port of the mobile communication terminal.

14. (**Currently Amended**) A method for outputting a file formatted picture to a display unit in a mobile communication terminal, the method comprising executing in sequence steps of:

receiving high resolution picture data through a mobile communications network;

formatting the received high resolution picture data into picture file formatted data including a plurality of unit blocks of picture data and index information;

extracting a minimum number of unit blocks of picture data from the picture file formatted data;

generating a partial picture using the extracted minimum number of unit blocks and the index information, wherein the partial picture corresponds to a display area of the mobile communications terminal; and

outputting the partial picture to the display unit; and

extracting corresponding unit blocks of picture data as required from the picture file formatted data in a movement direction by using the index information and outputting a position-moved picture based on a scroll action generated during the display of the picture;

wherein the size of each unit block of picture data is less than a size of the partial picture, and wherein the minimum number of unit blocks associated with each partial picture is greater than one.

15. (Previously Presented) The method of claim 14, wherein the picture file formatted data comprises picture header information including a size of the whole picture and a size of each unit block of picture data, the method further comprising extracting the picture header information of the picture file formatted data and displaying the picture header information on the picture header display unit.

16. (Previously Presented) The method of claim 14, wherein the picture file formatted data comprises supplementary information including at least one of a thumbnail of the picture, location information of an initial display block and picture summary text information, the method further comprising extracting the supplementary information of the picture file formatted data and display the supplementary information on the supplementary display unit.

17. (Previously Presented) The method of claim 14, wherein the memory comprises a screen frame buffer configured to buffer the partial picture outputted to the display unit, and a decoding frame buffer configured to buffer each unit block of picture data outputted to the display unit, and the method further comprising:

selecting a minimum number of unit blocks of picture data necessary to generate a partial picture outputted to the display unit, and extracting the selected unit blocks of picture data from the picture file formatted data using the index information of the associated unit blocks;

buffering the extracted unit blocks of picture data in the decoding frame buffer; and
outputting the partial picture in the screen frame buffer to the display unit.

18. (Previously Presented) The method of claim 17, further comprising decompressing each of the extracted unit blocks of picture data after extracting the unit block picture data and before buffering the picture data of the extracted unit blocks in the decoding frame buffer.

19. (Previously Presented) The method of claim 14, wherein the memory comprises a screen frame buffer configured to buffer the partial picture outputted to the display unit, and a decoding frame buffer configured to buffer each unit block of picture data outputted to the display unit, and

wherein outputting the moved picture comprises:

calculating a movement position based on a scroll action executed during the display of the partial picture;

re-selecting the minimum unit blocks of picture data of the partial picture outputted to the display unit in the movement direction, and determining whether the selected unit blocks of picture data exist in the decoding frame buffer; and

buffering the contents of the decoded frame buffer in the corresponding movement position of the screen frame buffer and displaying the partial picture based a determination that the re-selected unit blocks of picture data exist in the decoding frame buffer.

20. (Previously Presented) The method of claim 19, further comprising:

prior to displaying the partial picture, extracting the unit blocks of picture data from the picture file formatted data in the corresponding movement direction using index information when the re-selected unit blocks of picture data do not exist in the decoding frame buffer;

buffering the picture file of the extracted blocks in the decoding frame buffer; and
correcting the decoding frame buffer.

21. (Previously Presented) The method of claim 20, further comprising decompressing each of the extracted unit blocks of picture data, after extracting the selected unit block picture data and before correcting the decoding frame buffer.

22. (Previously Presented) The method of claim 14, further comprising:

dividing the picture data from the wireless communication unit into a plurality of unit blocks of picture data;

converting the unit blocks of picture data into picture file formatted data with indexes providing access to each unit block of picture data; and

storing the picture file formatted data in the memory before outputting the partial picture.

23. (Previously Presented) The method of claim 22, further comprising:
dividing the picture data from the wireless transmitting/receiving unit into a plurality of unit blocks of picture data;
generating indexes for each of the divided unit blocks of picture data; and
generating a converted file according to the picture file formatted data based on the index information.

24. (Previously Presented) The method of claim 23, further comprising compressing each of the divided plurality of unit blocks of picture data by blocks, after dividing the picture data into the plurality of unit blocks.

25. (Previously Presented) The method of claim 23, further comprising:
generating a picture header including a size of the whole picture and a size of each unit block after dividing the picture data into the plurality of unit blocks and before generating the converted file;
wherein generating the converted file generates the converted file including the picture header.

26. (Previously Presented) The method of claim 23, further comprising generating supplementary information including at least one of a thumbnail of the picture, location information of an initial display block and picture summary text information after dividing the picture data into the plurality of unit blocks and before generating the converted file;
wherein generating the converted file generates the converted file including the supplementary information.

27. (Currently Amended) A system configured to convert a picture file format, the system comprising a format converting server connected to a packet data service node and a picture providing server of a mobile communication system, the system configured to display the picture data format from the picture providing server in a mobile communication system, the mobile communication terminal comprising:

- a base transceiver system configured to perform wireless area communication with the mobile communication terminal;

- a base station controller configured to control the base transceiver system;

- a packet data service node connected to the base station controller, the packet data service node configured to provide data services to the mobile communication terminal; and

- a picture providing server configured to provide picture data to the mobile communication terminal through the packet data service node;

- wherein the format converting server comprises:

- a received file database configured to store high resolution picture data from at least one of the mobile communication terminal and picture providing server, and a converted file database configured to store a format-converted file of the picture data;

- a picture data receiving unit configured to receive the high resolution picture data from the picture providing server;

- a picture dividing unit configured to divide the high resolution picture of the picture data into a plurality of unit blocks;

- a storing unit configured to generate indexes of each of the divided unit blocks, the storing unit further configured to generate a file converted into a picture file format including the picture data and indexes of each unit block, and further configured to store the converted file in the converted file database; and

- a converted file transmitting unit configured to transmit the converted file to the mobile communication terminal or picture providing server;

- wherein a size of each unit block of picture data is less than a size of a display size of the mobile communications terminal.

28. (Previously Presented) The system of claim 27, wherein the storing unit is configured to generate a picture header including a size of the whole picture and a size of each unit block of picture data, and to store the converted file, including the picture header.

29. (Previously Presented) The system of claim 27, wherein the storing unit is configured to generate supplementary information including at least one of a thumbnail of the picture, location information of an initial display block and picture summary text information, and the converted file, including the supplementary information.

30. (Previously Presented) The system of claim 27, wherein the format converting server further comprises a compressing unit configured to individually compress each of the divided blocks, and the storing unit is configured to store the converted file, including the compressed unit blocks of picture data in the converted file database.

31. (Previously Presented) The system of claim 27, wherein the format converting server further comprises a decompressing unit configured to decompress compressed picture data from the mobile communication terminal or picture providing server.

32. **(Currently Amended)** A method of displaying a high resolution picture in a mobile communication terminal in a system for converting a picture file format comprising:

a format converting server, the format converting server connected to a packet data service node and a picture providing server of a mobile communication system and converting the format of the picture data, the mobile communication system comprising:

a base transceiver system configured to wirelessly communicate with the mobile communication terminal;

a base station controller configured to control the base transceiver system;

a packet data service node connected to the base station controller and configured to provide data services to the mobile communication terminal; and

a picture providing server configured to provide picture data to the mobile communication terminal through the packet data service node;

the method comprising the sequentially executed steps of:

dividing, at the format converting server, picture data received from the mobile communication terminal or picture providing server, into a plurality of unit blocks;

generating indexes that provide access to each divided unit block of picture data;

generating a file converted into picture file format, including the index information and each of the unit blocks; and

transmitting the converted file including all unit blocks and index information to the mobile communications terminal;

wherein a size of each unit block of picture data is less than a size of a display size of the mobile communications terminal.

33. (Previously Presented) The method of claim 32, further comprising, compressing each of the divided unit blocks of picture data, after dividing the picture data into the plurality of unit blocks.

34. (Previously Presented) The method of claim 32, further comprising, generating a picture header including a size of the whole picture and a size of each unit block, after dividing the picture data into the plurality of unit blocks and before generating the converted picture file;

wherein generating the converted picture file generates a converted picture file of formatted picture data including the picture header.

35. (Previously Presented) The method of claim 32, further comprising, generating supplementary information including at least one of a thumbnail of the picture, location information of an initial display block and picture summary text information, after dividing the picture data into the plurality of unit blocks and before generating the converted file,

wherein generating the converted file generates a converted file including the supplementary information.

36. (New) The mobile communication terminal of claim 1, wherein the picture file formatted data comprises picture header information including a size of the whole picture and a size of each unit block of picture data, wherein the size of each unit block of picture data is less

than a size of the partial picture, and wherein the minimum number of unit blocks associated with each partial picture is greater than one.